

## Case 3513

### *Chaetosoma* Westwood, 1851, *Apodasya* Pascoe, 1863 and CHAETOSOMATIDAE Crowson, 1952 (Insecta, Coleoptera): proposed conservation

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**Abstract.** The purpose of this application, under Articles 23.9.3 and 81, is to maintain usage of the junior homonym *Chaetosoma* Westwood, 1851 and of the junior synonym *Apodasya* Pascoe, 1863 over the newly discovered older name *Chaetosoma* Chevrolat, 1843. The Commission is also asked to conserve the beetle family-group name CHAETOSOMATIDAE Crowson, 1952 by suppressing the older but permanently invalid nematode name CHAETOSOMATIDAE Claus, 1872.

**Keywords.** Nomenclature; taxonomy; Coleoptera; Cucujiformia; CLEROIDEA; Nematoda; CERAMBYCIDAE; CHAETOSOMATIDAE; *Chaetosoma*; *Apodasya*; *Apodasya pilosa*.

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1. The genus *Chaetosoma* (Coleoptera: CERAMBYCIDAE) was first proposed by Dejean (1835, p. 340) in the second edition of the catalogue of his Coleoptera collection for one unavailable South African species, *C. pilosum* Dejean (nomen nudum). The name was used again by Dejean (1836, p. 366) in the third edition of his catalogue. In both instances, Dejean provided neither a description nor an indication for the new genus or species and therefore both names are unavailable from these publications.

2. Chevrolat (1843, p. 367) mentioned that Dejean proposed the genus *Chaetosoma* for one species, *C. pilosum*, which ‘ressemble un peu à une Saperde; elle est très velue; le 3e article des antennes est fort allongé; il offre près de l’extrémité quelques bouquets de poils espacés’ [somewhat resembles a *Saperda*; it is very hairy; the third antennal segment is very elongate; there are a few tufts of sparse setae near its extremity]. His description of the species made the genus and species names *Chaetosoma* and *Chaetosoma pilosum* Chevrolat, 1843 available. The name *Chaetosoma* Chevrolat, 1843 has been overlooked by all subsequent authors.

3. Westwood (1851, p. 171) described the genus *Chaetosoma* (Coleoptera, CLEROIDEA), totally unrelated to Chevrolat’s (1843) taxon, for a new species, *C. scaritides* Westwood (1851, p. 172), from New Zealand. The generic name *Chaetosoma* Westwood, 1851 is currently used as valid (e.g. Crowson, 1964; Crowson, 1972; Klimaszewski & Watt, 1997; Leschen, 2010).

4. Pascoe (1863, p. 54) described the genus *Apodasya* (Coleoptera: CERAMBYCIDAE) mentioning that the type and only species of the genus is ‘*Chaetosoma pilosum* of

Dejean's Catalogue.' He did not use the generic name *Chaetosoma* because it 'has been used for one of the CUCUJIDAE' (i.e. Westwood, 1851). The generic name *Apodasya* Pascoe, 1863 is currently used as valid (e.g. Breuning, 1962, 1966; Adlbauer, 2001; Delahaye, 2009). Its type species is *Apodasya pilosa* Pascoe, 1863, a junior subjective synonym of *Chaetosoma pilosum* Chevrolat, 1843. The genus includes three available species-group taxa in the Afrotropical Region.

5. Chevrolat's (1843) description of *Chaetosoma pilosum* was certainly based on the original specimen(s) of Dejean since Chevrolat had acquired Dejean's Longicornia specimens by the end of 1840 (Silbermann, 1840, p. 347). Chevrolat's main collection of Longicornia was deposited at the Natural History Museum, London (NHM), through J.C. Bowring in 1863 (Horn et al. 1990a, p. 72). There is currently one syntype of *C. pilosum* from Dejean's collection with his original label in the NHM (Sharon Shute pers. comm.). It is very likely that Pascoe had seen this syntype of *C. pilosum* at the time he described *Apodasya pilosum*. He did not refer to Chevrolat's (1843) description. Pascoe's (1863, p. 54) description of *Apodasya pilosum* was based on one specimen from C.O. Waterhouse's collection (now in Pascoe's collection, marked by Pascoe as 'Type'). Pascoe's collection was also deposited at the NHM in 1893 (Horn et al., 1990b, p. 296) and the holotype of *A. pilosa* is currently held at the NHM (Sharon Shute pers. comm.).

6. Claparède (1863, pp. 88–89) described the genus *Chaetosoma* (Nematoda) for the new species *C. ophicephalum*. As *Chaetosoma* had previously been used for a beetle genus, *Drepanonema* Cobb, 1933 (p. 81) and *Claparediella* Filipjev, 1934 (p. 21) have been proposed as replacement names for *Chaetosoma* Claparède, 1863.

7. Claus (1872, p. 312) established the family CHAETOSOMIDAE based upon the nematode genus *Chaetosoma* Claparède, 1863. Because the stem of its type genus is *Chaetosomat-*, this family-group name was corrected to CHAETOSOMATIDAE and used in this spelling by several authors subsequently (e.g. Shipley, 1916; Irwin-Smith, 1918; Baylis & Daubney, 1926). The type genus of CHAETOSOMATIDAE Claus, 1872 being a junior homonym, this family-group name is permanently invalid (Article 39 of the Code). A broadly equivalent taxon is currently known under the name DRACONEMATIDAE Filipjev, 1918.

8. Crowson (1952, p. 66) established the beetle family CHAETOSOMATIDAE for three New Zealand genera, *Chaetosoma* Westwood, 1851 (one species described so far), *Chaetosomodes* Broun, 1921 (one species) and *Metaxina* Broun, 1909. *Metaxina* was subsequently moved to a separate family, METAXINIDAE Kolibác, 2004 and one genus has been added to the family CHAETOSOMATIDAE, i.e. *Malgassochaetus* Ekiş & Menier, 1980 from Madagascar (eight species). This family-group name is currently used as valid in Coleoptera (e.g. Crowson, 1964, 1972; Ekiş & Menier, 1980; Menier & Ekiş, 1982; Menier, 1991; Klimaszewski & Watt, 1997; Kolibác, 2004; Beutel & Leschen, 2005; Leschen, 2010) and there is no other available name for this family.

9. Although the nematode family-group name CHAETOSOMATIDAE Claus, 1872 is permanently invalid because of the homonymy of its type genus, it is available as a senior homonym of the beetle name CHAETOSOMATIDAE Crowson, 1952 (Article 10.6 of the Code).

10. Usage of the newly discovered genus-group name *Chaetosoma* Chevrolat, 1843 threatens its junior homonym *Chaetosoma* Westwood, 1851 and its junior synonym *Apodasya* Pascoe, 1863. To our knowledge, *Chaetosoma* Chevrolat, 1843 has not

been used as valid since its establishment. However, *Chaetosoma* Westwood, 1851 and *Apodasya* Pascoe, 1863 have not been used in enough publications to apply Article 23.9.1.2 for the reversal of precedence. If *Chaetosoma* Chevrolat, 1843 is re-established, a new generic name would be needed to replace *Chaetosoma* Westwood, 1851 and the genus *Apodasya* would be known under the name *Chaetosoma* Chevrolat, 1843, which threatens stability. In addition, a new replacement name would be needed for the family CHAETOSOMATIDAE Crowson, 1952 because of the homonymy of its type genus.

11. The International Commission on Zoological Nomenclature is accordingly asked:

- (1) to suppress the generic name *Chaetosoma* Chevrolat, 1843 for both the Principle of Homonymy and the Principle of Priority;
- (2) to suppress the family-group name CHAETOSOMATIDAE Claus, 1872 (originally proposed as CHAETOSOMIDAE) for both the Principle of Homonymy and the Principle of Priority;
- (3) to place on the Official List of Generic Names in Zoology the following names:
  - (a) *Chaetosoma* Westwood, 1851 (gender: neuter), type species by monotypy *Chaetosoma scaritides* Westwood, 1851;
  - (b) *Apodasya* Pascoe, 1863 (gender: feminine), type species by original designation and monotypy *Apodasya pilosa* Pascoe, 1863 (a junior subjective synonym of *Chaetosoma pilosum* Chevrolat, 1843);
- (4) to place on the Official List of Specific Names in Zoology the following names:
  - (a) *scaritides* Westwood, 1851, as published in the binomen *Chaetosoma scaritides* (specific name of the type species of *Chaetosoma* Westwood, 1851);
  - (b) *pilosum* Chevrolat, 1843, as published in the binomen *Chaetosoma pilosum* (valid specific name of the type species of *Apodasya* Pascoe, 1863);
- (5) to place on the Official List of Family-Group Names in Zoology the name CHAETOSOMATIDAE Crowson, 1952, type genus *Chaetosoma* Westwood, 1851;
- (6) to place on the Official Index of Rejected and Invalid Generic Names in Zoology the name *Chaetosoma* Chevrolat, 1843 (gender: neuter), type species by monotypy *Chaetosoma pilosum* Chevrolat, 1843;
- (7) to place on the Official Index of Rejected and Invalid Family-Group Names in Zoology the name CHAETOSOMATIDAE Claus, 1872 (originally published as CHAETOSOMIDAE), type genus *Chaetosoma* Claparède, 1863.

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